FRENCH REPUBLIC
Ministry of Industry
and Trade
Dept. of Industrial
Property

PATENT No. 967.458

Gr. 19. — Cl. 4.

Container, with a special sealing feature, for a baby bottle with nipple.

Mr. Kurt ZIMMERMANN, residing in France (Alpes-Maritimes).

Applied for on June 9, 1948
at 11:25 a.m. in Nice.
Granted on March 29, 1950. —
Published on November 3, 1950.

The invention described below is designed to allow the transporting, in any position, of a baby bottle equipped with a nipple and having a liquid content, without the risk of loss of the liquid, either through openings in the nipple or through the seat of the nipple surrounding the top of the bottle. The cooling of the liquid is slowed by an insulating material which lines the inside of the unit.

The leak-proof characteristic of the bottle is obtained by a special sealing feature which, by virtue of its specially designed form, applies pressure on the rubber nipple and causes it to adopt a desired deformation (change in shape). When the special cover is removed, the nipple automatically returns to its initial shape, due to its elastic nature.

This container is practical and hygienic; all bottles and nipples of known models will fit into it.

In the attached drawings, one version of the invention is represented, by way of example, as follows:

Fig. 1 is a front view of the closed container;

Fig. 2 is a vertical section of the container, containing a baby bottle and showing the position of the nipple after pressure has been exerted by the cap/cover;

Fig. 3 is a cross-section of the cap of the container;

Fig. 4 is a separated view of the body of the container;

Fig. 5 is a view of the bottom cover of the container.

In accordance with the illustrated means of execution, the container is formed by a hollow cylindrical body 1, of metal or any other appropriate material, which holds the baby bottle 2; this body is lined on the inside with a thin layer of insulating material 3, cork for example, which allows the initial heat of the contents of the bottle to be maintained; it features several circular openings 4, or any other type of openings, which allow one to observe the level of the liquid contained in the bottle after each absorption. The diameter of body 1 narrows at its upper end so as to grip the bottle and to prevent it from slipping out when it is given to the baby. Other means for holding the bottle fast in the container may also be provided.

The container can be sealed by means of a cap/cover 5, which may be of the same material as body 1 or of a different material, and having a special shape.

The cap features, on its inside surface, a projection 6 in the shape of a truncated cone with its upper base forming a hollow hemispherical seat 7.

The cover also features two opposing indentations 8, in the form of inverted J, which interlock in the small tenons 9 provided at the upper end of body 1. Other systems for fastening the cover to the container may also be used (for example, screwing it on).

The container is sealed at the bottom by another cover 10, also having a cylindrical shape, with a flat or convex bottom, lined on the inside with a circular layer 3' of insulating material. It features, like the upper cover 5, two indentations 8' interlocking in tenons 9' provided on the lower end of body 1.

The instructions for use of the container are as follows:

After removing the bottom cover 10, leaving the cover 5 in place, the bottle with its nipple 11 is inserted into body 1 through the bottom opening. The perforated end of the nipple comes in contact with the hemispherical seat 7; by pushing the bottle all the way into the body of the container, the nipple is pressed down inside the neck of the bottle and takes on the shape indicated in fig. 2. In this manner, the two small holes 12 at the tip of the nipple are hermetically sealed by counterpressure. Furthermore, part 14 of the cover 5 presses on part 13 of the nipple, making the bottle totally leak-proof and the liquid is not able to escape regardless of the vibrations or jostling which the bottle undergoes or the positions which it assumes.

When one wants to use the bottle, cover 5 is removed; the nipple immediately resumes its initial shape due to its elasticity and the aspiration of air.

In the way of a variation, the container might not feature a cover on its upper portion, rather the top portion is shaped in the manner of the top cover 5 as described above.

It is understood that the container and the two covers may be made in any appropriate shape, dimensions or materials.

SUMMARY

The invention is characterized by a container, preferably insulated, in which the bottle equipped with its nipple is held in place due to the narrowing of the diameter of the upper end of the body of the container, or by any other holding device. The container is sealed at the top by a cover featuring, on its inside surface, a projection in the shape of a truncated cone, having on its upper base a hollow hemispherical seat sealing the openings at the tip of the nipple.

In one variation, the container might be sealed at its upper end, which is formed in the manner of the top cover as described here.

Single set of drawings

Kurt ZIMMERMANN

Counsel: R. ?

N° 967.458 M. Zimmermann

Fig.1

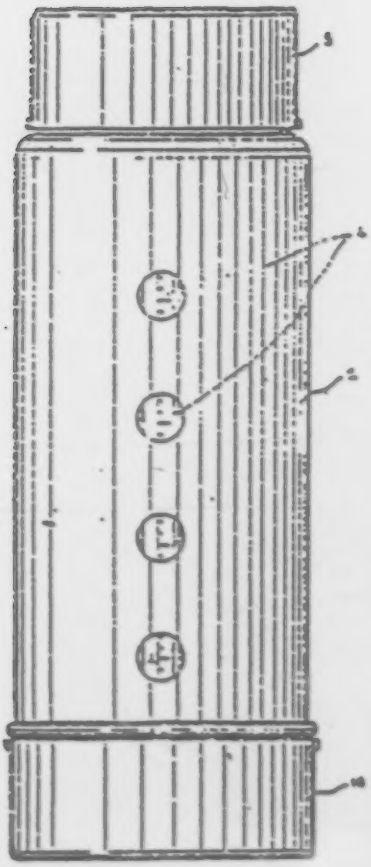
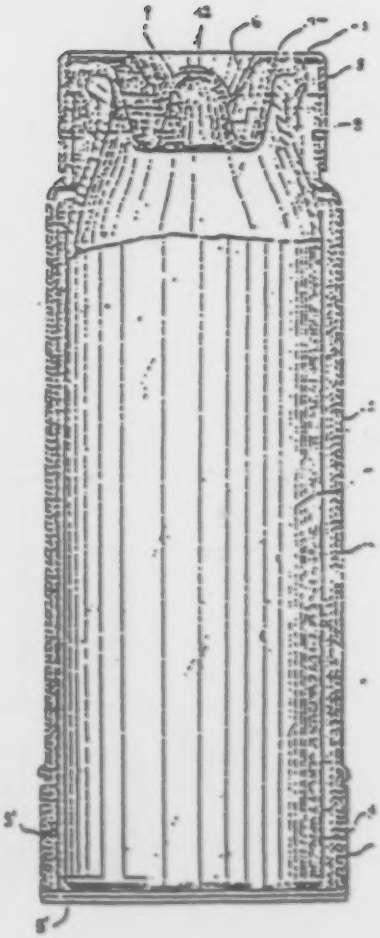


Fig.2



Pl. unique

Fig. 3

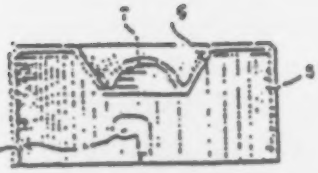


Fig. 4

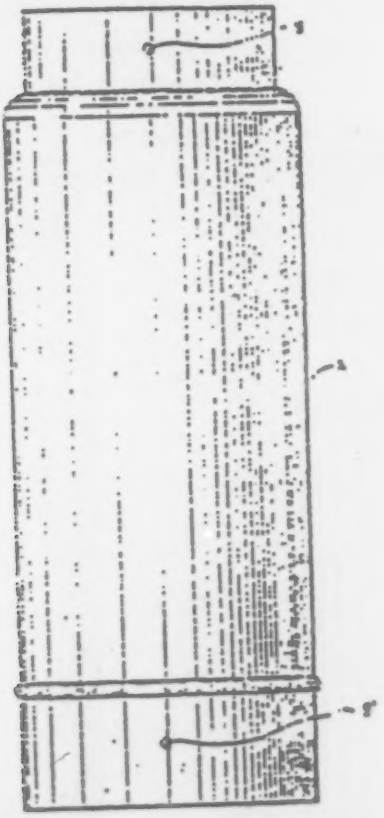


Fig. 5